

## **Belfry ATC Summer Career Camp June 20-24, 2005**



**“This camp helped us to provide a positive opportunity for students to learn about technical education careers and at the same time open new avenues with academic teachers. We invited academic teachers to work with our staff during camp week. It was beneficial for the students because both sets of teachers collaborated using the hands-on approach to learning and provided an opportunity for kids to use problem-solving and critical thinking skills.”**

**Annette Harris-Ward, Principal  
Belfry ATC**

**“The whole purpose of this endeavor is to give these young people a glimpse into career programs and occupations that may interest them in the future.”**

**Karla Tipton, State ACRN Fund Administrator**



# Machine Tool Technology Project: Brass Key Chains

## Materials and Process:

- \*Students receive a pre-cut piece of solid brass 1 ¼" x 4" and ¼" depth
- \*Use a grinder to sand the corners
- \*CNC Milling Machine – students are able to program their name in the computer to the size of the brass key chain
- \*Mill the piece
- \*Polish the brass
- \*Insert the key ring

Gabrielle Chafin, who will be a freshman at Belfry HS said, "I think it's cool that we can make a brass key chain using this machine. Mr. Williamson was really good at explaining the step by step process."

"This summer camp gives us an opportunity to provide students with a fun filled learning environment in creating real world projects that they can actually take home," says Belfry ATC Machine Tool Technology Instructor Paul Williamson. "I think that students as well as the academic teachers were surprised at how much math is involved in this type of career. My activity was for the kids to make key chains. I tied in measurement, algebra and geometry."





# Health Sciences - Melissa Scarberry

## Activities and Project:

- \*Safety Discussion for Skateboarding**
- \*Learning basic first aid**
- \*Decorating and assembling a First Aid Kit**

During a special session with students, Health Sciences Instructor Melissa Scarberry decided it would be a good idea to have a discussion about skateboard safety since each student would be making and taking home a skateboard. She purposely had the students engaged in learning basic first aid. Students practiced being a victim of a skateboard fall and being a caregiver in the event of an accident. Each student learned how to stop bleeding, what to do about a muscle sprain or fracture and how to recognize if someone has gone into shock.

The follow-up activity was to decorate a first aid kit and then fill it up with some of the basic items. Students were provided with surgi-pads, gauze pads, basic band-aids, all purpose clear tape, and alcohol swabs.





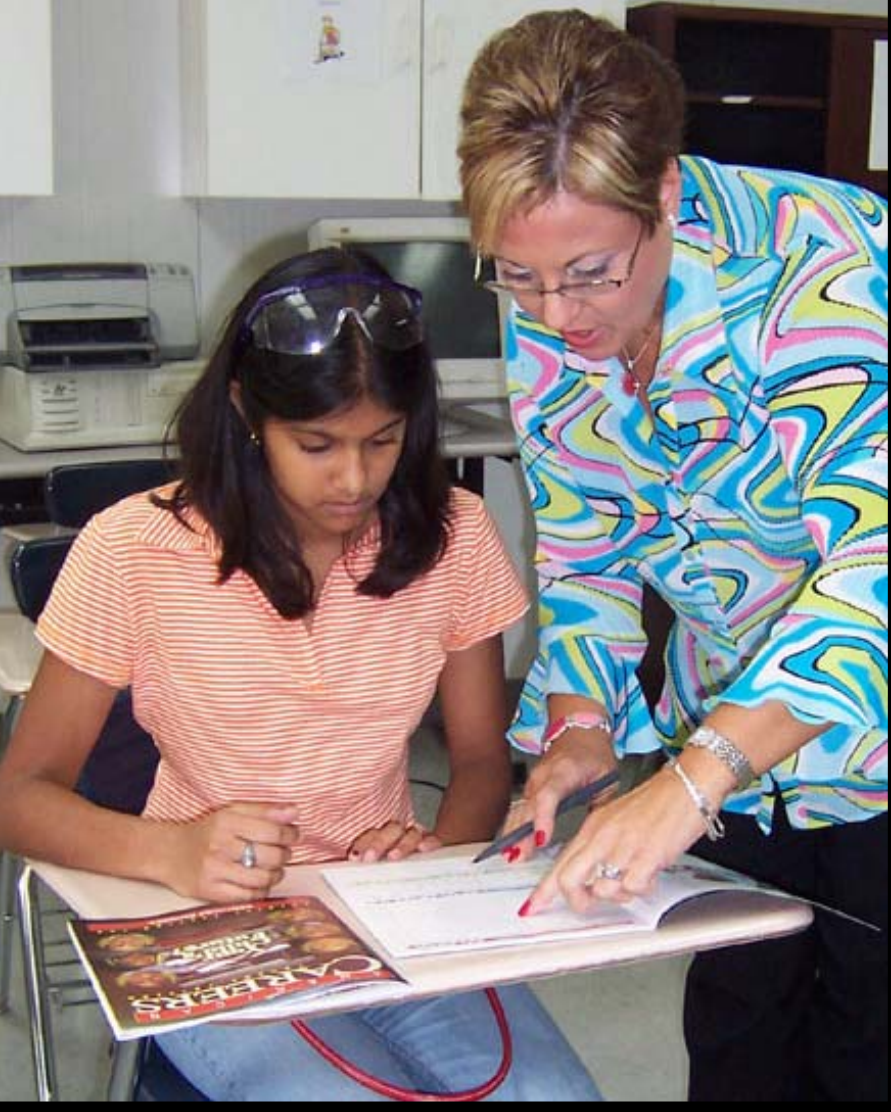
# **Health Sciences - Melissa Scarberry**

## **Decorating the first aid kit**

**“This was a great camp because we were able to get all the students engaged in the safety discussion and they began asking questions about health careers. It’s amazing what they can learn when something is of interest,” says Scarberry. “The health care field is wide and varied and I hope these students have a better understanding of all the possibilities and options open to them.”**







Upon completion of the interest survey, Kiran Haridas learned that she fell in both the Helper and Detailer categories of the Career Interest Inventory.

"I want to be a pediatrician or OB doctor when I grow up. I learned what categories I fit into and it also gave me some insight of other jobs that I can look at other than becoming a doctor," said Kiran.

## Career Interest Inventory Class

Conducted by Belfry ATC Principal Annette Harris-Ward using the American Career Magazine.

"This was an excellent session with the students in our camp because it gave us an opportunity to have them do their own personal career interest survey and this allowed them the chance to see where their interests lie," says Ward. "I asked each student to take home the magazine and discuss their specific results with their parents. After the activity, many parents realized that our camp provided some real life career information as well as fun in learning about and creating special projects. It was a worthwhile endeavor and we know that the parents were pleased with how the camp was conducted."





# **Carpentry Classroom – James Meade**

## **Project: Building a Skateboard**

- \*Cut out the ends of the skateboard**
- \*Sand around the edges**
- \*Apply polyurethane on top side of the board**
- \*Sand board with a fine grade sandpaper**
- \*Apply second coat of polyurethane**
- \*Apply stickers**
- \*Apply polyurethane over stickers**
- \*Assemble trucks to the skateboard**
- \*Put grip tape on the top side of the skateboard**

“This activity turned out to be something that the students thoroughly enjoyed,” says Belfry ATC Carpentry Instructor James Meade. “We have been able to apply mathematics in this project through applied geometry in cutting out the ends of the skateboards. The project involved nine steps and the students did a wonderful job in completing their finished products.”

“I think this was a fantastic project and gave each student something to take home and actually be able to use,” says Math Instructor Mike Anderson. “Three of the girls in this class have been in my math class at Turkey Creek Middle School. I can see a difference in their approach in coming into this class. They seem enthusiastic in coming to the fun summer class and they are learning a lot about math too.”

“This camp gives the kids a chance to apply what they learn from both a math and science perspective,” says Blackberry Grade School Science Instructor Franklin Miller. “We use skateboards a lot in science when we study force and motion. There are a lot of scientific principles involved in this project including friction and momentum. The whole general idea of motion is something that you can apply to the skateboard project.”



# **Carpentry Classroom – James Meade**

## **Project: Making Skateboards**

Belfry ATC Electrical Technology Instructor Robin May relayed the value of the summer camp was that the student got “a hands-on experience by building a project that they can actually use.”

### **What Did the Students Say About the Project?**

Nine-year-old Daniel Williams said of the skateboard project, “It’s cool. I knew that if I just closed my eyes, it would be 8:30 in the morning and I could come back for more.”

Casey Whetstone, a freshman at Belfry HS said, “It’s fun. It keeps me busy and I like to skateboard so I’m glad that I can make my own board.”

Fifteen-year-old Brent Meade of Gallipolis, Ohio said, “It’s hard, but fun. Now that I’m building this skateboard, I’m dying to use it.”

“It was an exciting week for the students and a pleasant surprise for me,” says Meade. “When we originally discussed the idea of building a skateboard, I wasn’t sure what to expect. These students did a great job in listening to instructions, following the correct safety procedures and building something they can be proud to show off.”



**The finale – everyone gets to show off his or her completed and decorated skateboards.**

